CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2017-18 08.02.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Project Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Improvements works at dog kennel at Sy No.51 Mallasandra in Ward No.13 of Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Reference	:	BBMP/EE/PD/WO/14/2017-18 Dated: 01.01.2018
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	08.02.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	517	558	13.3	O.K	O.K

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Civil-tech Consultants & Engineers
#23/14, 7th Cross, 3rd Stage, 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

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Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2017-18

08.02.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Project Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Improvements works at dog kennel at Sy No.51 Mallasandra in Ward No.13 of Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Reference	:	BBMP/EE/PD/WO/14/2017-18 Dated: 01.01.2018
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	08.02.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	520	562	13.5	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-02/561y/Bricks/2017-18 15.02.2018

TEST REPORT ON WATER ABSORPTION OF BRICKS

* Customer : **Asst. Executive Engineer,** Dasarahalli Project Division, BBMP, Bangalore.
* Agency : **Technical Manager,** KRIDL, Bangalore.
* Name of the work : Improvements works at dog kennel at Sy No.51 Mallasandra in Ward No.13 of Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Reference : BBMP/EE/PD/WO/14/2017-18 Dated: 01.01.2018
* Sample ID : Bricks

Technical Reference : IS: 3495(Part-2)- 1992 (RA-2011)

Sample Received on : 10.02.2018

Date of Testing : 15.02.2018

Sl.No	Size of Bricks in mm	Dry weight in gms	Wet weight in gms	Water Abosorption in %	Average Water Absorption in %	Allowable Water absorption as per IS: 1077:1995 Clause 7.2)
1	220x100x75	2959	3287	11.08	10.95	Not exceeding 20%
2	220x100x75	2963	3296	11.24		
3	220x100x75	2963	3292	11.10		
4	220x100x75	2985	3290	10.22		
5	220x100x75	2960	3288	11.08		

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Technical Manager

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-02/561y/Bricks/2017-18 15.02.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF BRICKS

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Project Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Improvements works at dog kennel at Sy No.51 Mallasandra in Ward No.13 of Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Reference	:	BBMP/EE/PD/WO/14/2017-18 Dated: 01.01.2018
* Sample ID	:	Bricks
Technical Reference	:	IS : 3495 (Part-1) - 1992 (RA-2011)
Sample Received on	:	10.02.2018
Date of Testing	:	15.02.2018

Sl.No.	Size of Bricks are in mm	Weight of Bricks in gms	Failure load in KN	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)	Class Designation (As per IS: 1077:1995 Table 1)
1	220x100x75	3436.00	123.5	5.61	5.51	5.0
2	220x100x75	3441.00	120.9	5.50		
3	220x100x75	3468.00	121.5	5.52		
4	220x100x75	3485.00	119.8	5.45		
5	220x100x75	3489.00	120.3	5.47		

* Information is furnished by the Customer/Representative

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